



MSDS for P/N 141-0300

MATERIAL SAFETY DATA SHEET

McMaster-Carr Part Number 3492T36

Effective Date February 14, 2009
MSDS Number M44
Section 1 – Product and Company Information

Product Name: MiniPax®, Indicating Silica gel

Product Use: Desiccant, absorbent

Grades: Silica gel, Indicating

Synonyms: Amorphous silica gel, SiO₂, silicon dioxide (amorphous)

Company; Multisorb Technologies, Inc.

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Section 2 – Hazard Identification

Emergency Overview: A white packet containing a blue granular material that poses little or no immediate hazard. This material is not combustible.

Potential Health Effects:

Eyes: None

Skin: None

Ingestion: Ingestion is unlikely but if ingested blockage may occur. Get medical attention.

Inhalation: None

Medical Effects Generally Aggravated by Exposure: None

Chronic Effects/Carcinogenicity: None

Section 3 – Composition / Information on Ingredients

Component Name	CAS Number	% by Weight
Synthetic amorphous silica gel (SiO ₂)	112926-00-8	85 - 95
Cobalt chloride	7646-79-9	.5
High density polyethylene fiber	9002-88-4	5 - 15

While this material is not classified as hazardous under OSHA regulations, this MSDS contains valuable information critical to the safe handling and proper use of this product. This MSDS should be retained and available for employees and other users of this product.

Section 4 – First Aid Measures

- Eyes:** Rinse the eyes well with water while lifting the eye lids. If irritation persists, consult a physician.
- Skin:** Wash affected area with soap and water.
- Ingestion:** Ingestion is unlikely but if ingested blockage may occur. Get medical attention.
- Inhalation:** Remove the affected person to fresh air and get medical attention if necessary.
- Notes to Physician:** Not applicable

Section 5 – Fire Fighting Measures

- Flammable Properties:** Not flammable
- Flash Point:** Not applicable **Method:** Not applicable
- Flammable Limits:** Not flammable
- Lower Flammability Limit:** Not applicable
- Upper Flammability Limit:** Not applicable
- Auto-ignition Temperature:** Not applicable
- Hazardous Combustion Products:** Not applicable
- Extinguishing Media:** Use extinguishing media that is appropriate for the surrounding fire. Silica gel is not combustible but the high density polyethylene fiber is combustible.
- Fire Fighting Instructions:** The silica gel is not combustible but the high density polyethylene fiber packaging is combustible.
- Unusual Fire and Explosion Hazards:** None

Section 6 – Accidental Release Measures

- Spill:** Sweep or vacuum up and place the spilled material in a waste disposal container. Avoid raising dust. Wash with soap and water after handling.

Section 7 – Handling and Storage

- Handling:** Avoid raising dust and minimize the contact between worker and the material. Practice good hygienic work practices.
- Storage:** Store in a cool, dry location. Keep in sealed containers away from moisture. The silica gel will readily adsorb moisture.

Section 8 – Exposure Controls/Personal Protection

- Engineering Controls:** Not required.
- Respiratory Protection:** Not required.
- Skin Protection:** Light gloves will protect against abrasion and drying of the skin.
- Eye Protection:** Not required.

Component Name	Exposure Limits		
	OSHA PEL	ACGIH TLV	Other Recommended Limits
There is no exposure to the components as dust or fume.	Not applicable	Not applicable	Not applicable

Section 9 – Physical and Chemical Properties

Appearance:	White packets	Vapor Density:	Not applicable
Odor:	None	Boiling Point:	4046° F (2230° C) (Silica Gel)
Physical State:	White packets	Melting Point:	3110° F (1710° C) (Silica Gel)
PH:	Not applicable	Solubility:	Insoluble in water
Vapor Pressure:	Not applicable	Specific Gravity:	2.1
Flammable:	Not applicable	Auto-ignition Point:	Not applicable
Flash Point:	Not applicable	Flammable Limits:	Not applicable

Section 10 – Stability and Reactivity

- Stability:** Stable
- Conditions to avoid:** Moisture and high humidity environments.
- Incompatibility:** Water, fluorine, oxygen difluoride, chlorine trifluoride
- Hazardous Decomposition Products:** None
- Hazardous Polymerization:** Will not occur

Section 11 – Toxicological Information

The following toxicological information refers to the contents of the packet. In normal use there is no exposure to the contents.

This product and its components are not listed on the NTP or OSHA Carcinogen lists.

Animal Toxicology Tests for DOT Hazard classification
(Tests Conducted on finely ground silica gel)

1 - hour LC₅₀ (rat) > 2 mg / l
48 - hour oral LD₅₀ (rat) est. > 31,600 mg / kg
48 - hour dermal LD₅₀ (rabbit) est. > 2,000 mg / kg
Considered an ocular irritant

Human Toxicology Silica gel is a synthetic amorphous silica not to be confused with crystalline silica. Epidemiological studies indicate low potential for adverse health effects. In the activated form, silica gel acts as a desiccant and can cause a drying irritation of the mucous membranes and skin in cases of severe exposure. Multisorb Technologies Inc. knows of no medical conditions that are abnormally aggravated by exposure to silica gel. The primary route of entry is inhalation of dust.

Section 12 – Ecological Information

Not known to have any adverse effect on the aquatic environment. Silica gel is insoluble and non-toxic.

Section 13 – Disposal Information

Disposal Information If this product as supplied becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Materials of a hazardous nature that contact the product during normal use may be retained on the product. The user of the product must identify the hazards associated with the retained material in order to assess the waste disposal options. Dispose according to federal, state and local regulations.

Section 14 – Transportation Information

U.S. Department of Transportation Shipping Name: Not classified as a hazardous material. Not regulated.

Section 15 – Regulatory Information (Not meant to be all inclusive - selected regulations represented)

The following regulatory information refers to the contents of the product. In normal use there is no exposure to the contents.

TSCA Listed: Yes

OSHA: See section 8 above.

NIOSH: See section 8 above.
Animal tests conducted in 1976 - 1978. 18 month exposure at 15 mg / m³ showed silica deposition in respiratory macrophages and lymph nodes, minimum lung impairment, no silicosis.

ACGIH: See section 8 above.

DOT: Not classified as a hazardous material.

Canadian Hazardous Products Act This product is not classified as a controlled product under the regulations pursuant to the Federal Hazardous Product Act (e.g. WHMIS).

Canadian Environmental Protection Act All ingredients of this product are notified to CEPA and on the DSL(Domestic Substances List).

Section 16 – Other Information**HMIS – Hazardous Materials Identification System**

HMIS Rating	
Health	0
Flammability	0
Physical	0

The HMIS rating information is intended solely for the use of individuals trained in the use of the HMIS rating system.

The NPCA specifically recommends that preparers of MSDSs should not place HMIS PPE designation codes on the MSDSs or labels that leave the facility as it is not known the conditions under which the customer will use this product.

This MSDS was prepared by: George E. Mckedy
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This data and recommendations presented in this data sheet concerning the use of our product and the materials contained therein are believed to be correct but does not purport to be all inclusive and shall be used only as a guide. However, the customer should determine the suitability of such materials for his purpose before adopting them on a commercial scale. Since the use of our products is beyond our control, no guarantee, expressed or implied, is made and no responsibility assumed for the use of this material or the results to be obtained therefrom. Information on this form is furnished for the purpose of compliance with Government Health and Safety Regulations and shall not be used for any other purposes. Moreover, the recommendations contained in this data sheet are not to be construed as a license to operate under, or a recommendation to infringe, any existing patents, nor should they be confused with state, municipal or insurance requirements, or with national safety codes.